

## Publications

### *Refereed publications*

102. Jansson, C. (2011) Metabolic engineering of cyanobacteria for direct conversion of CO<sub>2</sub> to hydrocarbon biofuels. **Progress in Botany** 73, in press.
101. Jansson, C., Wullschleger, S., Kalluri, U., and Tuskan, G.T. (2010) Phytosequestration: Carbon biosequestration by plants and the prospects for genetic engineering. **BioScience**. 60, 685-696.
100. Mangelsen, E., Kilian, J., Harter, K., Jansson, C., Wanke, D., and Sundberg, E. (2010) Transcriptome analysis of high-temperature stress in developing barley caryopses: Early stress responses and effects on storage compound biosynthesis. **Mol. Plant**, in press (available online: doi: 10.1093/mp/ssq058).
99. Jansson, C., and Northen, T. (2010) Calcifying cyanobacteria - the potential of biomineralization for carbon capture and storage. **Curr. Opin. Biotechnol.** 21, 365-371.
98. Mangelsen, E., Wanke, D., Kilian, J., Sundberg, E., Harter, K., and Jansson, C. (2010) Significance of light, sugar, and amino acid supply for diurnal gene regulation in developing barley caryopses. **Plant Physiol.** 153, 14-33.
97. Beyene, D., Baguma, Y., Mukasa, S.B., Sun, C., and Jansson, C. (2010) Characterization and role of isoamylase1 (Meisa1) gene in cassava. **African Crop Sci. J.** 18, 1-8.
96. Mutisya, J., Sun, C., and Jansson, C. (2009) Circadian oscillation of starch branching enzyme gene expression on the sorghum endosperm. **Plant Sign. Behavior** 4, 871-872.
95. Jansson, C. Westerbergh, A., Zhang, J., Hu, A., and Sun, C. (2009) Cassava, a potential biofuel crop in China. **Applied Energy** 86, S95-S99.
94. Mutisya, J., Sun, C., Rosenquist, S., and Jansson, C. (2009) Endogenous oscilation of SBE expression in sorghum endosperm. **J. Plant Physiol.** 166, 428-434.
93. Mangelsen, E., Kilian, J., Berendzen, K.W., Kolukisaoglu, Ü., Harter, K., Jansson, C., and Wanke, D. (2008) Phylogenetic and comparative gene expression analysis of barley (*Hordeum vulgare*) WRKY transcription factor family reveals putatively retained functions between monocots and dicots. **BMC Genomics** 9, doi:10.1186/1471-2164-9-194.
92. Baguma, Y., Sun, C., Borén, M., Olsson, H., Rosenquist, S., Mutisya, J., Rubaihayo,

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91. Sun, C., Ghebremedhin, H., Höglund, A.-S., and Jansson, C. (2008) Antisense oligodeoxynucleotide inhibition as a potent diagnostic tool for gene function in plant biology. **Plant Sign. Behavior** 3, 328-330.
90. Hammargren, J., Rosenquist, S., Jansson, C., and Knorpp, C. (2008) A novel connection between nucleotide and carbohydrate metabolism in mitochondria: The Arabidopsis Nucleoside Diphosphate Kinase 3a gene is regulated by sugars. **Plant Cell Rep.** 27, 529-534.
89. Sun, C., Ridderstråle, K., Larsson, L.-G., Jansson, C. (2007) Sweet delivery – Sugar translocators as ports of entry for antisense ODNs in plant cells. **Plant J.** 52, 1192-1198.
88. Borén, M., Glaring, M.A., Ghebremedhin, H., Olsson, H., Blennow, A. and Jansson, C. (2008) Molecular and physicochemical characterization of the high.amylose barley mutant Amo1. **J. Cereal Sci.** 47, 79-89.
87. Bozhkov, P. and Jansson, C. (2007) Autophagy and cell-death proteases in plants: two wheels of a funeral cart. **Autophagy** 3, 136-138.
86. Borén, M., Höglund, A.-S., Bozhkov, P. and Jansson, C. (2006) Developmental regulation of a VEIDase caspase-like proteolytic activity in barley caryopsis. **J. Exp. Bot.** 57, 3747-3753.
85. Mutisya, J., Sun, C., Rosenquist, S., Baguma, Y., Odhiambo, B., and Jansson, C. (2006) Transcriptional regulation of the *sbeIIb* genes in sorghum (*Sorghum bicolor*) and barley (*Hordeum vulgare*): importance of the barley *sbeIIb* second intron. **J. Plant Physiol.** 163, 770-780.
84. Sun, C., Olsson, H., Höglund, A.-S., Mangelsen, E. and Jansson, C. (2005) Antisense oligodeoxynucleotide inhibition as a potent strategy in plant biology: identification of SUSIBA2 as a transcriptional activator in plant sugar signaling. **Plant J.** 44, 128-138. (Selected for Cover Image).
83. Bresell, A., Weinander, R., Lundqvist, G., Haider, R., Shimoji, M., Sun, T.-H., Balk, L., Wiklund, R., Eriksson, J., Jansson, C., Persson, B., Jakobsson, P.-J. and Morgenstern, R. (2005) Bioinformatic and enzymatic characterization of the MAPRG superfamily. **FEBS J.** 272, 1688-1703.
82. Sicora, C., Wiklund, R., Jansson, C., and Vass, I. (2004) Charge stabilization and recombination inPhotosystem II containing the D1' protein product of the *psbAI* gene in *Synechocystis* 6803. **Phys. Chem. Chem. Phys.** 6, 4832-4837.

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76. Ahlandsberg, S., Sathish, P., Sun, C. and Jansson, C. (2002) A set of useful monocotyledon transformation vectors. **Biotech. Lett.** 23: 1871-1875. **Biotech. Lett.** 23, 1871-1875.
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*Invited Book chapters & Proceedings (non-refereed)*

38. Jansson, C. Cyanobacteria: Their potential in drop-in biofuel synthesis and point-source carbon capture and sequestration. *Progress in Botany*, in press.
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19. Mäenpää, P., Kallio, T., Mulo, P., Salih, G., Aro, E.-M., Tyystjärvi, E. and Jansson, C. (1993) Photoinhibitory behaviour of site-specific *psbA* mutants of *Synechocystis* 6803. In: **Research in Photosynthesis** (Murata, N. ed.), vol. 4, pp. 483-486. Kluwer Academic Publishers, Dordrecht.
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